Sheet 1 of 12 Applicant: Cleary, Brown Title: Low Cost, Highly Accurate Video

Server Bit-Rate Compensation

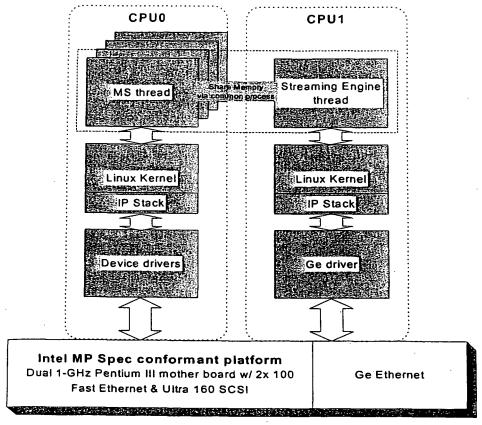


Figure 1 - Linux SMP host

Sheet 2 of 12

Applicant: Cleary, Brown
Title: Low Cost, Highly Accurate Video
Server Bit-Rate Compensation

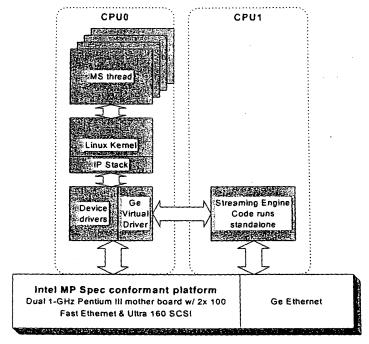
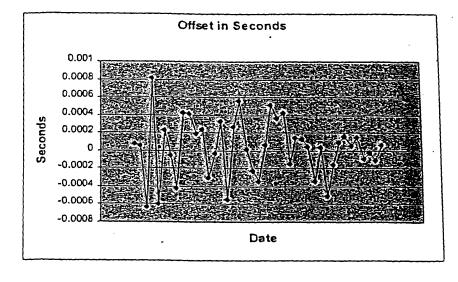


Figure 2 - Uni-processor Linux

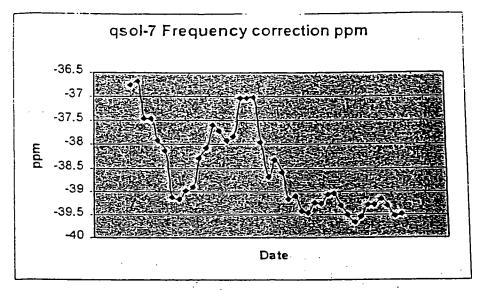
Sheet 3 of 12 '
Applicant: Cleary, Brown
Title: Low Cost, Highly Accurate Video
Server Bit-Rate Compensation
Docket: DIVA/993





- Offset in seconds from time source F16.3

Sheet 4 of 12 . Applicant: Cleary, Brown Title: Low Cost, Highly Accurate Video Server Bit-Rate Compensation



 $f(G \ \ \varphi \ \ \text{-Frequency correction in ppm}$

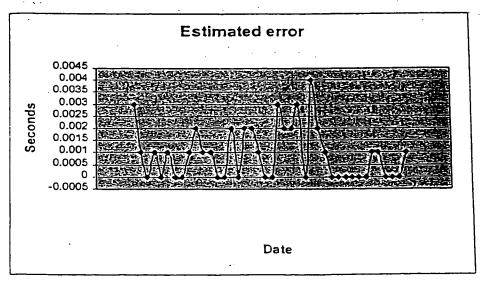
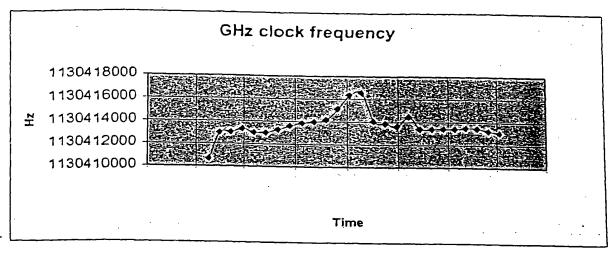


FIG. 5 - Estimated error in seconds

Sheet 5 of 12 Applicant: Cleary, Brown

Title: Low Cost, Highly Accurate Video

Server Bit-Rate Compensation



F16. 6 - GHz Clock Frequency

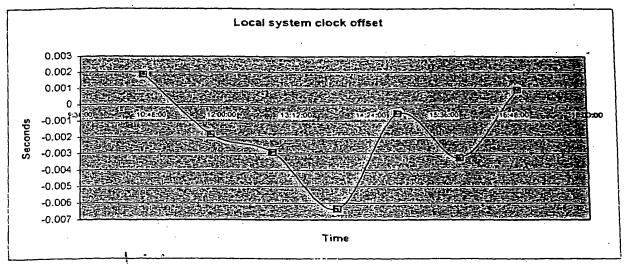
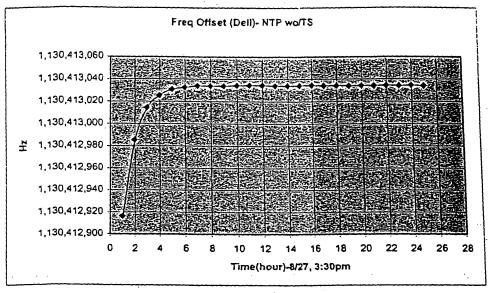


FIG. 7 - Local System Clock Offset

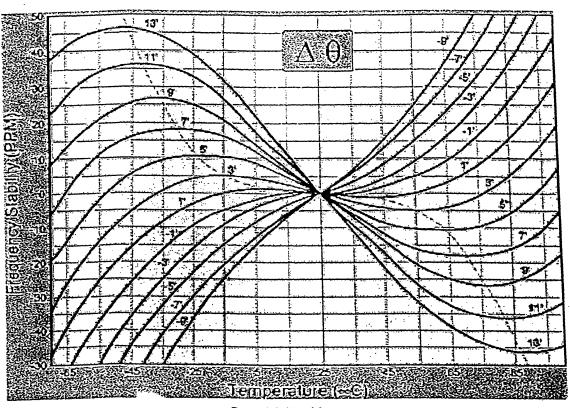
9heet 6 of 12 -

Applicant: Cleary, Brown
Title: Low Cost, Highly Accurate Video
Server Bit-Rate Compensation



F16.8 NTP correction after timeserver removed

Sheet 7 of 12 Applicant: Cleary, Brown Title: Low Cost, Highly Accurate Video Server Bit-Rate Compensation Docket: DIVA/993



F/G. 9 - Crystal drift with temperature

Sheet 8 of 12 . Applicant: Cleary, Brown
Title: Low Cost, Highly Accurate Video
Server Bit-Rate Compensation

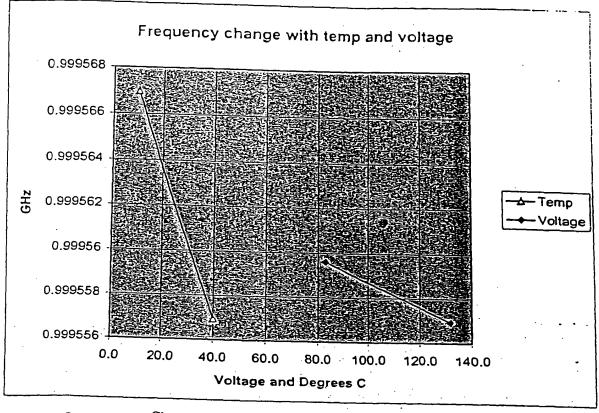
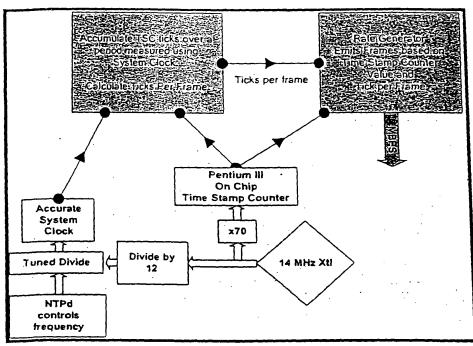


FIG. 10 - Change of frequency with Temperature and Supply voltage

Sheet 9 of 12

Applicant: Cleary, Brown
Title: Low Cost, Highly Accurate Video

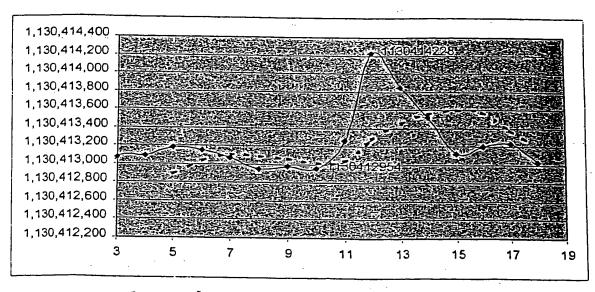
Server Bit-Rate Compensation Docket: DIVA/993



- Rate controller control loop FlG.

Sheet 10 of 12

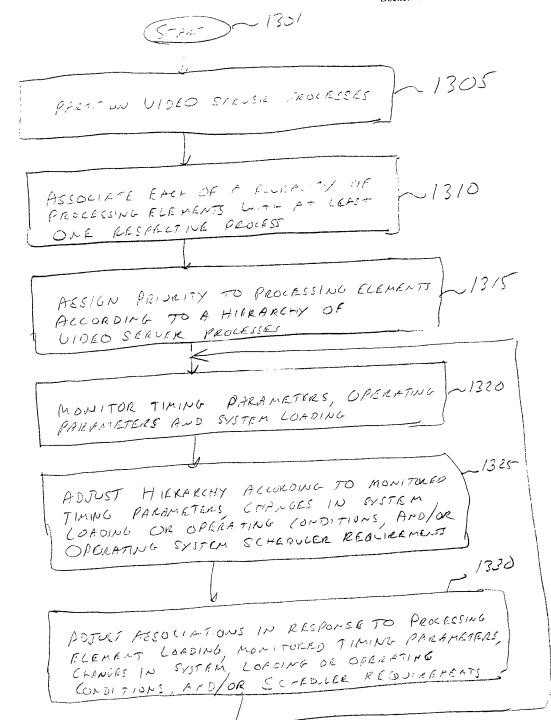
Applicant: Cleary, Brown
Title: Low Cost, Highly Accurate Video
Server Bit-Rate Compensation



f-16. 12 - Low pass filter of GHz crystal measurements

Sheet 11 of 12
Applicant: Cleary, Brown
Title: Low Cost, Highly Accurate Video
Server Bit-Rate Compensation

Server Bit-Rate Compen Docket: DIVA/993



1300

F16 13

Sheet 12 of 12
Applicant: Cleary, Brown
Title: Low Cost, Highly Accurate Video
Server Bit-Rate Compensation
Docker: DIVA/993

| DIVAT DIVAT
| CIRCUITAY
| 1420

| MEMORY | 1440

| PROGRAMS 1442

F16. 14